

Title

FARMER'S AID PORTAL

Minor project – Report

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Chandigarh University

September, 2022

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i. Title of the project:

FARMER'S AID PORTAL

ii. Project Introduction:

Basically, we have thought of having two modules one for the regional head and one for the admin,

we will have sign up page for new users and a login page.

After log in the very first page that opens up is for new farmers, here this page shows farmers based on different regions and since we have taken a problem that we are based in Uttarakhand we have taken some of the villages from here and we have sorted the farmers on basis of that,

for example if we will click on all - all the farmers will be shown but if we click on a particular farm then only farmers who are working there will be shown then similarly with other buttons this way it will help to be less cluttered and will help to see the farmers being situated in different areas. Moving ahead we can have farmer activity page here and we can input the details of a particular farmer and then by clicking on the submit button it will get added to the database and can be used for the logistics and other statistics now we have thought of doing KYC for example entering the name of the farmer aadhar card the crops being produced, their monthly income, the latitude and longitude in order to calculate the area which is being under a particular farmer and while clicking on the submit it will get submitted and will be saved in database.

Also there's an issue which was being raised that farmers are required to be educated so the resource field manager can upload resources by

simply clicking, they can go to the link provided which would be very beneficial for them and also the regional field manager can add new sources here and a part will show the assets which are being requested by a particular farmer, farmers can place a request to the regional manager telling that whether he requires a tractor or fertilizer or etcetera.

Moving ahead with module which is the admin module, after successful log in the admin dashboard the admin will be able to review everything and then summarize, they can see the total crops produced by all the farmers in all the regions, total exported units and the unsold crops left, sum total of all the incomes being generated by the farmer and predict next harvest, technologies to get predicted outcome when the next harvest will be available as it would be very beneficial to calculate ahead and stay ahead in time, admin can also look upon the total revenue the administrator can also see farmers detail for example the farmer name and some other details can be seen, he can also see fully elaborated version of a day by clicking on the provided button and it will take them to a place where all the activities and information from time to time is updated so there he can see all the information and also data analysis which shows different visualizations of income involved, how is the produced and yield of crop, we can predict this by using prediction algorithms like how much healthy crop is there and how much damage crop is there in order to see where we are lacking and then improve, it will also help our business to grow, then also administrator can view all the details here then moving towards the statistics part it is very important to see how the impact is being created amongst everyone so we can see the people employed against activities by using different regions and show how many number of people are involved in particular activities.

Thus, our problem statement and solution so formed:

PROBLEM STATEMENT:

- To display the farmer's profile and his crop analysis.
- Provide a portal where field staff can enter data of farmers through form.
- Provide a way to analyze visualize for economic social impact.
- Need to educate farmers about technology and local resources.

SOLUTION:

- Simple and user-friendly portal to gather all the data.
- Admin, Regional Field Managers and Farmers have their own database serve their needs.
- Visualization of data in graphical form.
- Logistics presentation for economic social benefits.

iii. Client identification and recognition of need:

We have three main sections: -

- First of all is the admin, he will be able to access the financial insights, view the farmer's record and add regional managers.
- Second, we have the field staff.
He will be able to add farmers, view and maintain details and provide training to the farmers as well.
- Third, farmers, who will be able to access his profile, and also check the crops produced as well as the income generated.

iv. Recognition & knowledge of relevant contemporary issues:

- ◆ We noticed, that farmers of small villages are not very educated and they don't have knowledge of technology or local resources and the market price for their crop.
- ◆ In order to solve this problem and help the farmers especially of remote areas, we have thought of designing a portal that will help farmers understand the economic-social benefits and analyze the data so that they can get maximum profit.

v. Project Identification:

- While going through different project ideas, we came across this problem statement and realized that we can do so much for farmers with our innovative ideas and tech knowledge.
- So, we thought of making a place for farmers which would help them get maximum benefits.
- We researched on this topic and realized that there is no proper AID/HELP for the farmers, so we took it upon ourselves to introduce something useful and new that will not only help with the farmers growth but also our country's economic development because farmers are our country's backbone.

vi. Task identification:

- Researched on the topics: -
 - Farmers need
 - Financial insights
 - Revenue management
 - Farmers records
 - Farmers basic details
 - Crop production and income
 - Need for regional managers
 - Analysis of data and verification
 - Admin and field staff roles
 - Asset management
 - KYC and farmers bank account
 - Need for basic education
- thoroughly went through problems of farmers and thought about the possible solutions that can be provided by our team and our project's future scope.
- For starters we picked a remote area with many underdeveloped villages from Uttarakhand.
- Our project is divided into three main sections namely:
 - Admin
 - Field staff
 - Farmers

vii. Project Timeline:

- Researched on the topic- how we get the topic, planning etc.
(1st -2nd week)
- Define problem statements- found numerous problems to work on
(2nd -4th week)
- Solution identification- created modern solutions for different problems
(3rd - 4nd week)
- Client identification- divided our project into main members
(3rd - 4th week)
- Rough prototype- every team member provided his/her work
(3rd - 6th week)
- Other issues identification and solutions- considered and corrected new problems faced
(5th - 6th week)
- Finalizing prototype- finalize the whole prototype with new updates and features
(7th -8th week)

viii. Gant chart:

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Research								
Defined problem statements								
solution identification								
client idenification								
Rough Prototype								
Other issues								
Final Prototype								